CLAIMS

What is claimed is:

1. A method comprising:

storing a configuration for a distributed environment in a central storage of the distributed environment; and

updating a portion of the configuration in the distributed environment.

2. The methodof Claim 1 wherein updating comprises:

acquiring a lock for the portion of the configuration in a first node in the distributed environment;

modifying the portion of the configuration;

invalidating a representation of the portion of the configuration in the distributed environment; and

releasing the lock.

3. The method of Claim 2 wherein updating further comprises: updating a database to reflect modifications of a portion of the configuration; and

blocking reads of the configuration during the updating.

- 4. The method of Claim 2 wherein updating further comprises: notifying nodes in the distributed environment of the updated configuration data.
- 5. The method of Claim 2 wherein the lock is cluster wide.
- 6. The method of Claim 2 wherein updating further comprises: writing changes to a shared database.
- 7. The method of Claim 2 wherein modifying comprises: changing a configuration object in a branch of a tree structure.
- 8. The method of Claim 2 wherein invalidating comprises: sending a cache invalidation event to another node in the cluster.

- 9. The method of Claim 2 wherein invalidating comprises: sending a message to a plurality of Java 2 Enterprise Edition (J2EE) nodes.
- 10. The method of Claim 2 wherein updating further comprises: notifying registered listeners that the configuration has been changed.
- 11. A system comprising:

a plurality of nodes each having a instance of a configuration manager to maintain consistent storage of a configuration across the nodes without passing configuration modifications between the nodes;

a locking server shared by the plurality of nodes to coordinate access to the configuration; and

a database management system to provide an interface with a shared relational database, the database to store the configuration.

- 12. The system of Claim 11 wherein the configuring manager comprises: a configuration cache; and a configuration handler.
- 13. The system of Claim 12 wherein the configuration manager further comprises:

a persistency handler.

- 14. The system of Claim 11 further comprising: a configuration handler to permit access to and modification of the configuration.
- 15. The system of Claim 11 wherein the configuration comprises: a plurality of persistent objects holding information about a Java 2 enterprise edition cluster.
- 16. The system of Claim 15 wherein some of the persistent objects are cacheable.

- 17. The system of Claim 11 wherein the configuration manager comprises: a change event listener to notify registered components of configuration change events.
- 18. A computer readable storage media containing executable computer program instructions which when executed cause a digital processing system to perform a method comprising:

storing a configuration for a distributed environment in a central storage of the distributed environment; and updating a portion of the configuration in the distributed environment.

19. The computer readable storage media of Claim 18 containing executable computer program instructions which when executed cause a digital processing system to perform the method wherein updating comprises:

acquiring a lock for the portion of the configuration in a first node in the distributed environment;

modifying the portion of the configuration;

invalidating a representation of the portion of the configuration in the distributed environment; and

releasing the lock.

20. The computer readable storage media of Claim 19 containing executable computer program instructions which when executed cause a digital processing system to perform the method wherein updating comprises:

updating a database to reflect modifications of a portion of the configuration; and

blocking reads of the configuration during the updating.

21. The computer readable storage media of Claim 19 containing executable computer program instructions which when executed cause a digital processing system to perform the method wherein updating comprises:

notifying node in the distributed environment of the current configuration data.

22. The computer readable storage media of Claim 19 containing executable computer program instructions which when executed cause a digital processing system to perform the method wherein updating further comprises:

changing the configuration locally; writing the changes to a shared database; and committing the changes.

- 23. The computer readable storage media of Claim 19 containing executable computer program instructions which when executed cause a digital processing system to perform the method wherein invalidating comprises: sending a cache invalidation event to another node in the cluster.
- 24. The computer readable storage media of Claim 19 containing executable computer program instructions which when executed cause a digital processing system to perform the method wherein updating comprises: notifying registered listeners that the configuration has been changed.
- 25. A system comprising:

means for maintaining consistent storage of configuration information in a distributed environment;

means for controlling access to the configuration information; and means for interfacing with a relational database system to provide persistent storage of the configuration information.

26. The system of Claim 25 wherein the configuration information comprises:

a plurality of persistent objects holding information about a Java 2 Enterprise Edition cluster.

27. The system of Claim 25 wherein the means for maintaining comprises: a configuration cache resident in each node of the distributed environment; and

a configuration handler resident in each node of the distributed environment.